

Qiuwen Chen

List of Publications by Year in descending order

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Version: 2024-02-01

104
papers

3,630
citations

147566

31
h-index

155451

55
g-index

115
all docs

115
docs citations

115
times ranked

3405
citing authors

#	ARTICLE	IF	CITATIONS
1	River dam impacts on biogeochemical cycling. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 103-116.	12.2	372
2	How successful are the restoration efforts of China's lakes and reservoirs?. <i>Environment International</i> , 2019, 123, 96-103.	4.8	151
3	Characterizing the river water quality in China: Recent progress and on-going challenges. <i>Water Research</i> , 2021, 201, 117309.	5.3	127
4	The magnitude and drivers of harmful algal blooms in China's lakes and reservoirs: A national-scale characterization. <i>Water Research</i> , 2020, 181, 115902.	5.3	126
5	Evaluation of simulated dredging to control internal phosphorus release from sediments: Focused on phosphorus transfer and resupply across the sediment-water interface. <i>Science of the Total Environment</i> , 2017, 592, 662-673.	3.9	117
6	Tracking Nitrogen Sources, Transformation, and Transport at a Basin Scale with Complex Plain River Networks. <i>Environmental Science & Technology</i> , 2017, 51, 5396-5403.	4.6	108
7	Use of DGT and conventional methods to predict sediment metal bioavailability to a field inhabitant freshwater snail (<i>Bellamya aeruginosa</i>) from Chinese eutrophic lakes. <i>Journal of Hazardous Materials</i> , 2014, 264, 184-194.	6.5	90
8	Crowdsourcing Methods for Data Collection in Geophysics: State of the Art, Issues, and Future Directions. <i>Reviews of Geophysics</i> , 2018, 56, 698-740.	9.0	90
9	Characterization and source identification of tetracycline antibiotics in the drinking water sources of the lower Yangtze River. <i>Journal of Environmental Management</i> , 2019, 244, 13-22.	3.8	89
10	Phosphorus recovery through adsorption by layered double hydroxide nano-composites and transfer into a struvite-like fertilizer. <i>Water Research</i> , 2018, 145, 721-730.	5.3	87
11	Multiscale Comparative Evaluation of the GPM IMERG v5 and TRMM 3B42 v7 Precipitation Products from 2015 to 2017 over a Climate Transition Area of China. <i>Remote Sensing</i> , 2018, 10, 944.	1.8	84
12	Spatiotemporal variation of correlation between vegetation cover and precipitation in an arid mountain-oasis river basin in northwest China. <i>Journal of Hydrology</i> , 2019, 574, 138-147.	2.3	83
13	The impact of climate variability and land use/cover change on the water balance in the Middle Yellow River Basin, China. <i>Journal of Hydrology</i> , 2019, 577, 123942.	2.3	80
14	Three-dimensional eutrophication model and application to Taihu Lake, China. <i>Journal of Environmental Sciences</i> , 2008, 20, 278-284.	3.2	79
15	Hydropower reservoirs on the upper Mekong River modify nutrient bioavailability downstream. <i>National Science Review</i> , 2020, 7, 1449-1457.	4.6	79
16	When and where to reduce nutrient for controlling harmful algal blooms in large eutrophic lake Chaohu, China?. <i>Ecological Indicators</i> , 2018, 89, 808-817.	2.6	77
17	Effects of upstream reservoir regulation on the hydrological regime and fish habitats of the Lijiang River, China. <i>Ecological Engineering</i> , 2015, 76, 75-83.	1.6	66
18	Long-term and inter-monthly dynamics of aquatic vegetation and its relation with environmental factors in Taihu Lake, China. <i>Science of the Total Environment</i> , 2019, 651, 367-380.	3.9	58

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19	Carbon Emission from Cascade Reservoirs: Spatial Heterogeneity and Mechanisms. <i>Environmental Science & Technology</i> , 2017, 51, 12175-12181.	4.6	56
20	Hypoxia Remediation and Methane Emission Manipulation Using Surface Oxygen Nanobubbles. <i>Environmental Science & Technology</i> , 2018, 52, 8712-8717.	4.6	55
21	The influences of land use changes on the value of ecosystem services in Chaohu Lake Basin, China. <i>Environmental Earth Sciences</i> , 2015, 74, 385-395.	1.3	53
22	Remote sensing estimation of the total phosphorus concentration in a large lake using band combinations and regional multivariate statistical modeling techniques. <i>Journal of Environmental Management</i> , 2015, 151, 33-43.	3.8	52
23	Determination of an appropriate ecological hydrograph for a rare fish species using an improved fish habitat suitability model introducing landscape ecology index. <i>Ecological Modelling</i> , 2015, 311, 31-38.	1.2	51
24	Spatial-temporal characteristics of surface water quality in the Taihu Basin, China. <i>Environmental Earth Sciences</i> , 2011, 64, 809-819.	1.3	48
25	Long-term precipitation forecast for drought relief using atmospheric circulation factors: a study on the Maharloo Basin in Iran. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 1995-2006.	1.9	46
26	Development of Fish Passage in China. <i>Fisheries</i> , 2015, 40, 161-169.	0.6	42
27	Migration and degradation of swine farm tetracyclines at the river catchment scale: Can the multi-pond system mitigate pollution risk to receiving rivers?. <i>Environmental Pollution</i> , 2017, 220, 1301-1310.	3.7	42
28	Tracking nitrogen pollution sources in plain watersheds by combining high-frequency water quality monitoring with tracing dual nitrate isotopes. <i>Journal of Hydrology</i> , 2020, 581, 124439.	2.3	42
29	Critical roles of cyanobacteria as reservoir and source for antibiotic resistance genes. <i>Environment International</i> , 2020, 144, 106034.	4.8	40
30	Substrate degradation and nutrient enrichment structuring macroinvertebrate assemblages in agriculturally dominated Lake Chaohu Basins, China. <i>Science of the Total Environment</i> , 2018, 627, 57-66.	3.9	35
31	Physiological effects of nitrate, ammonium, and urea on the growth and microcystins contamination of <i>Microcystis aeruginosa</i> : Implication for nitrogen mitigation. <i>Water Research</i> , 2019, 163, 114890.	5.3	35
32	Framework for quantifying rural NPS pollution of a humid lowland catchment in Taihu Basin, Eastern China. <i>Science of the Total Environment</i> , 2019, 688, 983-993.	3.9	33
33	A Phosphorus Dynamic model for lowland Polder systems (PDP). <i>Ecological Engineering</i> , 2016, 88, 242-255.	1.6	32
34	Nitrous oxide emissions from cascade hydropower reservoirs in the upper Mekong River. <i>Water Research</i> , 2020, 173, 115582.	5.3	32
35	Sources, distribution and export coefficient of phosphorus in lowland polders of Lake Taihu Basin, China. <i>Environmental Pollution</i> , 2017, 231, 1274-1283.	3.7	31
36	Linking landscape structures and ecosystem service value using multivariate regression analysis: a case study of the Chaohu Lake Basin, China. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	30

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37	Sieved Transport and Redistribution of Bioavailable Phosphorus from Watershed with Complex River Networks to Lake. <i>Environmental Science & Technology</i> , 2017, 51, 10379-10386.	4.6	30
38	Application of a Simple Raster-Based Hydrological Model for Streamflow Prediction in a Humid Catchment with Polder Systems. <i>Water Resources Management</i> , 2011, 25, 661-676.	1.9	29
39	A comparison of factors influencing the summer phytoplankton biomass in China's three largest freshwater lakes: Poyang, Dongting, and Taihu. <i>Hydrobiologia</i> , 2017, 792, 283-302.	1.0	29
40	Towards the development of a modeling framework to track nitrogen export from lowland artificial watersheds (polders). <i>Water Research</i> , 2018, 133, 319-337.	5.3	29
41	Ecological hydrograph based on <i>Schizothorax chongi</i> habitat conservation in the dewatered river channel between Jinping cascaded dams. <i>Science China Technological Sciences</i> , 2011, 54, 54-63.	2.0	27
42	A method to study antibiotic emission and fate for data-scarce rural catchments. <i>Environment International</i> , 2019, 127, 514-521.	4.8	27
43	Improving the Resilience of Postdisaster Water Distribution Systems Using Dynamic Optimization Framework. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020, 146, .	1.3	27
44	Modeling the effects of environmental variables on short-term spatial changes in phytoplankton biomass in a large shallow lake, Lake Taihu. <i>Environmental Earth Sciences</i> , 2014, 72, 3609-3621.	1.3	26
45	Combined effects of binary antibiotic mixture on growth, microcystin production, and extracellular release of <i>Microcystis aeruginosa</i> : application of response surface methodology. <i>Environmental Science and Pollution Research</i> , 2018, 25, 736-748.	2.7	26
46	Estimating the biomass of unevenly distributed aquatic vegetation in a lake using the normalized water-adjusted vegetation index and scale transformation method. <i>Science of the Total Environment</i> , 2017, 601-602, 998-1007.	3.9	25
47	Deriving Optimal Daily Reservoir Operation Scheme with Consideration of Downstream Ecological Hydrograph Through A Time-Nested Approach. <i>Water Resources Management</i> , 2015, 29, 3371-3386.	1.9	24
48	Combination of artificial neural network and clustering techniques for predicting phytoplankton biomass of Lake Poyang, China. <i>Limnology</i> , 2015, 16, 179-191.	0.8	22
49	Hydrology and phosphorus transport simulation in a lowland polder by a coupled modeling system. <i>Environmental Pollution</i> , 2017, 227, 613-625.	3.7	21
50	Inducing Flow Velocities to Manage Fish Reproduction in Regulated Rivers. <i>Engineering</i> , 2021, 7, 178-186.	3.2	21
51	Assessing the variable ecosystem services relationships in polders over time: a case study in the eastern Chaohu Lake Basin, China. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	20
52	Long-term exposure to antibiotic mixtures favors microcystin synthesis and release in <i>Microcystis aeruginosa</i> with different morphologies. <i>Chemosphere</i> , 2019, 235, 344-353.	4.2	20
53	In situ simulation of thin-layer dredging effects on sediment metal release across the sediment-water interface. <i>Science of the Total Environment</i> , 2019, 658, 501-509.	3.9	20
54	Assessment of land use impact on hydraulic threshold conditions for gully head cut initiation. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 3005-3012.	1.9	19

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55	Modeling the hydrological effects of climate and land use/cover changes in Chinese lowland polder using an improved WALRUS model. <i>Hydrology Research</i> , 2016, 47, 84-101.	1.1	19
56	Antibiotics along an alpine river and in the receiving lake with a catchment dominated by grazing husbandry. <i>Journal of Environmental Sciences</i> , 2022, 115, 374-382.	3.2	18
57	Effects of nutrient temporal variations on toxic genotype and microcystin concentration in two eutrophic lakes. <i>Ecotoxicology and Environmental Safety</i> , 2018, 166, 192-199.	2.9	17
58	Dramatic source-sink transition of N ₂ O in the water level fluctuation zone of the Three Gorges Reservoir during flooding-drying processes. <i>Environmental Science and Pollution Research</i> , 2018, 25, 20023-20031.	2.7	17
59	Spatiotemporal analysis of nonlinear trends in precipitation over Germany during 1951–2013 from multiple observation-based gridded products. <i>International Journal of Climatology</i> , 2019, 39, 2120-2135.	1.5	17
60	Bacterial communities in cascade reservoirs along a large river. <i>Limnology and Oceanography</i> , 2021, 66, 4363-4374.	1.6	17
61	How can we reduce phosphorus export from lowland polders? Implications from a sensitivity analysis of a coupled model. <i>Science of the Total Environment</i> , 2016, 562, 946-952.	3.9	15
62	Offline training for improving online performance of a genetic algorithm based optimization model for hourly multi-reservoir operation. <i>Environmental Modelling and Software</i> , 2017, 96, 46-57.	1.9	15
63	Assessing Aquatic Ecological Health for Lake Poyang, China: Part I Index Development. <i>Water (Switzerland)</i> , 2018, 10, 943.	1.2	15
64	Modelling the regulation effects of lowland polder with pumping station on hydrological processes and phosphorus loads. <i>Science of the Total Environment</i> , 2018, 637-638, 200-207.	3.9	15
65	Incorporating fish habitat requirements of the complete life cycle into ecological flow regime estimation of rivers. <i>Ecohydrology</i> , 2020, 13, e2204.	1.1	14
66	Key role of suspended particulate matter in assessing fate and risk of endocrine disrupting compounds in a complex river-lake system. <i>Journal of Hazardous Materials</i> , 2022, 431, 128543.	6.5	14
67	Structural uncertainty assessment in a discharge simulation model. <i>Hydrological Sciences Journal</i> , 2011, 56, 854-869.	1.2	13
68	Effects and consideration of storm movement in rainfall-runoff modelling at the basin scale. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 5063-5071.	1.9	13
69	Effects of rainfall events on behavior of tetracycline antibiotics in a receiving river: Seasonal differences in dominant processes and mechanisms. <i>Science of the Total Environment</i> , 2019, 692, 511-518.	3.9	13
70	Enhanced riparian denitrification in reservoirs following hydropower production. <i>Journal of Hydrology</i> , 2020, 583, 124305.	2.3	13
71	A novel framework to predict water turbidity using Bayesian modeling. <i>Water Research</i> , 2021, 202, 117406.	5.3	12
72	An improved Ensemble Kalman Filter for optimizing parameters in a coupled phosphorus model for lowland polders in Lake Taihu Basin, China. <i>Ecological Modelling</i> , 2017, 357, 14-22.	1.2	11

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73	Modelling the Impacts of Bathymetric Changes on Water Level in China's Largest Freshwater Lake. <i>Water (Switzerland)</i> , 2019, 11, 1469.	1.2	11
74	Eutrophication Prediction Using a Markov Chain Model: Application to Lakes in the Yangtze River Basin, China. <i>Environmental Modeling and Assessment</i> , 2016, 21, 233-246.	1.2	10
75	Evapotranspiration versus oxygen intrusion: which is the main force in alleviating bioclogging of vertical-flow constructed wetlands during a resting operation?. <i>Environmental Science and Pollution Research</i> , 2017, 24, 18355-18362.	2.7	10
76	Health assessment using aqua-quality indicators of alpine streams (Khunjerab National Park), Gilgit, Pakistan. <i>Environmental Science and Pollution Research</i> , 2017, 24, 4685-4698.	2.7	10
77	Integrating multi indices for identifying priority management areas in lowland to control lake eutrophication: A case study in lake Gehu, China. <i>Ecological Indicators</i> , 2020, 112, 106103.	2.6	10
78	Impact of Short-Term Hydrological Components on Landscape Pattern of Waterbird Habitat in Floodplain Wetlands. <i>Water Resources Research</i> , 2022, 58, .	1.7	10
79	High prevalence of unstable antibiotic heteroresistance in cyanobacteria causes resistance underestimation. <i>Water Research</i> , 2021, 202, 117430.	5.3	9
80	Determination of daily ecohydrographs by the fish spawning habitat suitability model and application to reservoir ecooperation. <i>Ecohydrology</i> , 2016, 9, 973-981.	1.1	8
81	Estimating ecological flows for fish overwintering in plain rivers using a method based on water temperature and critical water depth. <i>Ecohydrology</i> , 2019, 12, e2098.	1.1	8
82	Quantifying the cost-effectiveness of nutrient-removal strategies for a lowland rural watershed: Insights from process-based modeling. <i>Ecological Modelling</i> , 2020, 431, 109123.	1.2	8
83	The direct and indirect effects of land use and water quality on phytoplankton communities in an agriculture-dominated basin. <i>Environmental Monitoring and Assessment</i> , 2020, 192, 760.	1.3	8
84	Laboratory study on fish behavioral response to meandering flow and riffle-pool sequence driven by deflectors in straight concrete flood channels. <i>Journal of Hydrology</i> , 2021, 598, 125736.	2.3	8
85	An integrated hydrodynamic and multicriteria evaluation Cellular Automata-Markov model to assess the effects of a water resource project on waterbird habitat in wetlands. <i>Journal of Hydrology</i> , 2022, 607, 127561.	2.3	8
86	Proper Mode of Using Rice Straw Biochar To Treat Cd-Contaminated Irrigation Water in Mining Regions Based on a Multiyear in Situ Experiment. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 9928-9936.	3.2	7
87	The effects of environmental factors and geographic distance on species turnover in an agriculturally dominated river network. <i>Environmental Monitoring and Assessment</i> , 2019, 191, 201.	1.3	7
88	Dam cascade unveils sediment methylmercury dynamics in reservoirs. <i>Water Research</i> , 2022, 212, 118059.	5.3	7
89	Phosphorus and humic acid extraction from fermentation liquor of ferric phosphate sludge via layered double hydroxides: Efficiency and interaction mechanism. <i>Journal of Cleaner Production</i> , 2021, 319, 128664.	4.6	6
90	Characterizing the impacts of macrophyte-dominated ponds on nitrogen sources and sinks by coupling multiscale models. <i>Science of the Total Environment</i> , 2022, 811, 152208.	3.9	6

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91	Climate Change Shrinks and Fragments Salmon Habitats in a Snow-Dependent Region. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	6
92	Juvenile silver carp <i>Hypophthalmichthys molitrix</i> swim faster in closed surface flow than open surface flow. <i>Environmental Biology of Fishes</i> , 2014, 97, 1411-1416.	0.4	5
93	Streamflow response to future climate and land use changes in Xinjiang basin, China. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	5
94	Exploring the Influence of Seasonal Cropland Abandonment on Evapotranspiration and Water Resources in the Humid Lowland Region, Southern China. <i>Water Resources Research</i> , 2022, 58, .	1.7	5
95	Experimental and numerical studies on deflector configuration in straight flood channel for heterogeneous flow enhancement and fish habitat improvements. <i>Ecological Engineering</i> , 2020, 156, 105964.	1.6	4
96	Quantifying the impacts of climate change and land use on hydrological processes: A comparison between mountain and lowland agricultural watersheds. <i>Hydrological Processes</i> , 2020, 34, 5370-5383.	1.1	4
97	Preference by juvenile Chinese sucker <i>Myxocyprinus asiaticus</i> , for substrate colour in zero versus slow velocity regimes suggest a change in habitat preference of wild juveniles after damming the Yangtze river. <i>River Research and Applications</i> , 2017, 33, 1368-1372.	0.7	3
98	Dynamics of heat transport across sediment deposited hyporheic zone inside reservoirs following hydropower production. <i>Science of the Total Environment</i> , 2020, 707, 135611.	3.9	3
99	Improvement on numerical modeling of total dissolved gas dissipation after dam. <i>Ecological Engineering</i> , 2020, 156, 105965.	1.6	3
100	Spatial Patterns of Diffusive Methane Emissions Across Sediment Deposited Riparian Zones in Hydropower Reservoirs. <i>Journal of Geophysical Research C: Biogeosciences</i> , 2021, 126, e2020JG005945.	1.3	3
101	Improved Model for Predicting Total Dissolved Gas Generation With the Residence Time of the Water in the Stilling Phase. <i>Frontiers in Environmental Science</i> , 2022, 9, .	1.5	2
102	Habitat quality assessment of Alpine Streams using ARISE: a classification tool for Alpine River and Stream Ecosystems in Khunjerab National Park Gilgit, Pakistan. <i>Geomicrobiology Journal</i> , 0, , 1-12.	1.0	1
103	A novel lake-zoning framework for large lakes based on numerical modelling. <i>Ecological Informatics</i> , 2022, 69, 101595.	2.3	1
104	A Real-Time Assessment of Aquatic Ecological Health Using a Process-Based Model: An Example From Lake Poyang, China. <i>Frontiers in Environmental Science</i> , 0, 10, .	1.5	0